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Publications

1966 FRUIT TREE CENSUS

Part III

Apples



Ministry
ONTARIO DEPARTMENT OF AGRICULTURE AND FOOD
PARLIAMENT BUILDINGS, TORONTO


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DEPUTY MINISTER

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FOREWORD

In 1966, a Fruit Tree Census was carried out by the Fruit and Vegetable Extension Service of the Ontario Department of Agriculture and Food. C. M. Riach, of the Farm Economics, Co-operatives and Statistics Branch, coordinated the tabulation of trees and vines in the various surveys.

The results of this 1966 survey are published in three parts. Every effort has been made to include useful information on the various crops. This publication presents the number of apple trees reported by this census and is Number III in the series. The first publication presents the number of grape vines and the second publication deals with tender fruit. We hope that growers will find this report of value in deciding future plantings. We hope, too, that industry personnel responsible for making crop forecasts will find this an up-to-date base for their predictions.

Throughout this report, reference has been made to the 1961 and 1956 surveys. This year, a change was made by deleting several of the old apple varieties that appeared in previous census reports; also, a few new varieties were added to this list. In these cases, it is not possible to directly compare the statistics for the various varieties with those from previous surveys.

Since apples are planted on a wide variety of rootstocks, this report is presented in three sections. The first section will deal with apples on standard rootstocks, the second with apples on size-controlling rootstocks, and the third with apples on *Malus robusta* rootstocks. There are a number of tables at the end of this publication which give a very comprehensive breakdown of the varieties and age distribution of apples for each of the size-controlling rootstocks. This should be of considerable interest to the apple industry.

In all cases where apple varieties are listed in the tables of this publication, they are listed in order of maturity.

The survey was divided into the following six districts:

1. **St. Lawrence Valley District** — Counties of Glengarry, Stormont, Dundas, Carleton, Grenville, and Leeds.
2. **Eastern Ontario District** — Counties of Frontenac, Lennox and Addington, Hastings, Prince Edward, Northumberland, Peterborough, Durham, Ontario, and Victoria.
3. **Georgian Bay District** — Counties of Simcoe, Grey, Bruce, and Dufferin.
4. **Central Ontario District** — Counties of York, Peel, Halton, and North Wentworth.
5. **Niagara District** — Counties of Lincoln, Welland, South Wentworth, and Haldimand.
6. **Southwestern Ontario District** — Counties of Brant, Norfolk, Oxford, Perth, Wellington, Waterloo, Elgin, Middlesex, Kent, Lambton, Essex, and Huron.

Every effort was made by the Fruit and Vegetable Extension Service to make this report as complete as possible. We believe that this report represents more than 95% of the apple growers in Ontario. For example, the Ontario Apple Growers Marketing Board has a list of 1,700 apple growers. In this survey, farms reporting standard apple trees totaled 2,392. However, we do not consider a farm with less than 30 trees to be a commercial enterprise.

Appreciation is expressed to B. G. Wilson, Ontario Fruit and Vegetable Growers Association; H. Bonter, Chairman, Apple Section, Ontario Fruit and Vegetable Growers Association; and G. Long, Chairman, Ontario Apple Growers Marketing Board, in preparing the manuscript for this publication.

B. E. Beeler, Chairman
Fruit Tree Census Committee

APPLE PRODUCTION

The apple continues to be the most important fruit grown in the Province of Ontario. In 1966, a crop of 7,000,000 bushels was marketed which was worth more than \$10,000,000 to the growers. Actually, the production of apples is in its second era of expansion in this Province. Due to the very cold winter in 1933-34, many of the orchards were completely killed. One of the best early records on the extent of the apple industry in Ontario was given in Bulletin 323, published by the Ontario Department of Agriculture in 1927. The following information was taken directly from that Bulletin:

"The apple is the most important fruit grown in Ontario. This is shown by the number of trees planted and also by the value of the fruit produced. According to the census of 1921, there were 4,492,672 bearing trees and 987,115 non-bearing trees in Ontario, or a total of 5,479,787. The bearing trees yielded 9,187,703 bushels valued at \$6,194,254, a sum more than twice that of all other tree fruits combined, and three-fourths that of the combined production of all kinds of fruit other than apples.

"The following table taken from the census report for 1921 shows the number and distribution of apple trees in Ontario:

"These figures indicate widespread apple plantings over the Province. Commercial production, however, is centered largely in several fairly well-defined areas."

At the present time, there are 2,392 farms reporting a total of 748,792 trees on standard rootstocks, and 743 farms reporting 426,636 trees on size-controlling rootstocks in Ontario, as shown by this census. These trees produced 7,000,000 bushels of apples in 1966. From the production figures just noted, it is interesting that 1,175,428 trees produced 7,000,000 bushels in 1966 and that 5,479,787 trees produced 9,000,000 bushels in 1921. It goes without saying that the Ontario apple grower has become more efficient in the production of this crop. Prices received by the grower for his apple crop have not changed appreciably in the last number of years. A higher yield per acre is one of the important factors in keeping the grower in business.

Number of Apple Trees in Ontario — Census Report 1921

County	Bearing	Non-Bearing	County	Bearing	Non-Bearing
Algoma	8,867	4,427	Muskoka	1,453	819
Brant	79,963	10,871	Nipissing	347	613
Bruce	166,017	8,947	Norfolk	138,042	121,890
Carleton	32,661	19,898	Northumberland	344,843	90,690
Dufferin	36,764	3,638	Ontario	130,243	79,953
Dundas	30,670	14,207	Oxford	140,207	23,044
Durham	186,997	62,542	Parry Sound	913	1,436
Elgin	126,559	18,079	Peel	101,064	42,562
Essex	71,078	24,212	Perth	116,286	8,404
Frontenac	29,331	7,696	Peterborough	37,041	7,905
Glengarry	18,312	7,250	Prescott	4,596	3,180
Grenville	33,805	14,273	Prince Edward	235,322	27,530
Grey	266,607	28,295	Rainy River	1	23
Haldimand	91,177	4,716	Renfrew	10,426	7,541
Haliburton	1,807	792	Russell	7,193	4,990
Halton	125,882	35,597	Simcoe	163,846	25,300
Hastings	115,703	18,503	Stormont	22,078	6,897
Huron	276,912	27,930	Sudbury	42	149
Kenora	—	79	Temiskaming	3	84
Kent	89,176	16,595	Thunder Bay	116	61
Lambton	207,006	34,164	Victoria	33,821	8,384
Lanark	17,764	6,254	Waterloo	92,055	12,176
Leeds	28,986	6,313	Welland	99,707	9,542
Lennox & Addington	44,638	3,389	Wellington	101,228	9,824
Lincoln	98,895	24,310	Wentworth	146,113	27,798
Manitoulin	5,019	2,493	York	152,621	42,016
Middlesex	222,289	17,934			

Extensive research is conducted at many horticultural research stations in Canada and the United States. This has been very beneficial to the Ontario grower. A great deal of emphasis has been placed on variety breeding at some of these stations, with the result that the grower has a wider choice of varieties when planting a new orchard. According to Bulletin 323, Ontario Department of Agriculture, 1927, the following is a list of recommended varieties for that period:

Melba, Fameuse, McIntosh, Delicious, Greening, Golden Russet, Spy, Astrachan, Duchess, Wealthy, Wolf River, Scarlet Pippin, Jonathan, King, Tolman, Wagner, and Baldwin.

From this recommended variety list of 1927, three varieties continue to be very important to the present apple grower; the McIntosh variety represents 40% of our Ontario apple trees on standard rootstocks, Northern Spy represents 21%, and Red Delicious represents 11%, for a total of 72% of all trees. Of these varieties, McIntosh is the most prolific producer and probably accounts for almost 50% of our total apple crop.

There are many areas in Ontario suited for apple production. These areas have much in common; generally, they are near a large body of water, which has a favorable effect on the spring and fall temperatures. However, the production areas are confined to the six districts listed in the foreword of this publication. There is sufficient land available for continued expansion of the apple industry for many years to come.

VARIETIES

At the present time, McIntosh, Northern Spy, and Red Delicious continue to be the most important varieties planted by the Ontario grower. Certainly, the Ontario apple market has been sold on a red apple. The result has been that other apples of good quality which are not red in color, meet with poor consumer acceptance.

At the present time, there seems to be a renewed interest in processing apples in Ontario. Growers have produced Northern Spy for processing but are hesitant to plant new trees as this variety is often very slow coming into production. Three new varieties being planted by growers include Wayne, a processing variety, Idared, a dual purpose variety, and Golden Delicious which has basically been sold for a fresh market apple.

No recommendations on varieties to be planted are made in this publication. The varieties recommended for a particular grower, will depend on

his circumstances such as location, climate, and market outlets (see Publication 430, Fruit Varieties).

APPLE MARKETING

Since the early beginning of this industry, the producers relied on the export shipment of apples as a major outlet for their crop. In the early days, apples were packed in barrels (approximately two and one-half bushels) and sent mainly to the United Kingdom, by cargo vessel. Most of the early farms had a small planting of orchard which supplied the apples that were generally stored over winter in the basement of the house.

In the early years, dried apples represented the only processed apple product and these were active prior to 1900. Apparently, one of the first apple canning operations started in the Collingwood area around 1910. Due to an increased competition for export markets, other outlets for processed apples were sought. In the Georgian Bay area, a juice and vinegar processing business started around 1939.

Thus, from its early beginning, when almost 100% of the apples were used fresh, there has been a gradual shift to processing apples.

In 1966, Ontario produced 7,000,000 bushels of apples. This was one of the largest crops on record in recent years. It was utilized as follows:

Fresh	3.4 million bushels
Processing (a) Juice	2.8 million bushels
(b) Peelers8 million bushels

This is a considerable change from ten years ago when one would have said that only 25% of the crop was used for processing.

The Ontario apple is now available to the retail trade in its fresh form every month of the year. This has been made possible through the development of better storage facilities and to a better quality apple being produced.

The Ontario fruit and vegetable growers have been leaders in organized marketing. The apple producers are currently operating under a Marketing Board. It is the hope of this industry that through legislation, the marketing of the apple crop can be stabilized, thus bringing top value for the crop to Ontario growers.

In past years, growers have "made their money" by selling their crop in the fresh market. If this is to continue, growers must place more emphasis on producing a quality product. Production information is available which will enable the growers to produce a better quality apple. Too many have been slow to use this information.

APPLE TREE CENSUS

Trees on Standard Rootstocks

In order to establish a trend in plantings for varieties of apples grown in Ontario, a census of trees was carried out in the fall and winter of 1966-67. Similar surveys were carried out in 1961 and 1956. We believe that this survey presents the tree numbers from more than 95% of Ontario growers.

Table I presents the number of farms reporting apples grown on standard rootstocks. It is of interest to note that 846 farms reported from 1 to 30 apple trees. In most cases, these could be assumed to be non-commercial enterprises. Many of those reported from the Niagara Peninsula where many of the tender fruit growers also have a few apple trees on their farm from which produce is sold. According to Table I, about 50% of the farms reporting trees on standard rootstocks actually have less than 10 acres of fruit. It is true that apples are grown in conjunction with mixed farming operations. However, at the present time, crops must be produced as economically as possible if the grower is to receive an adequate return on his investment. It would seem that units of 10 acres or less cannot be considered economical. It is therefore expected that the apple growers of tomorrow will expand into larger, more economical production units.

Table II presents the number of apple trees on standard rootstocks classed by variety and district. From this table, one can see that the varieties McIntosh, Northern Spy, and Red Delicious account for 72% of the total number of trees.

Table III presents the number of apple trees grown on standard rootstocks in the province by variety and age group. According to U.S.D.A. statistics, a production area must keep about 29% of its total acreage in non-bearing trees if the crop is to maintain a constant production level. This table indicates that only 15% of Ontario apples on standard rootstocks are in the non-bearing category. This is not a healthy sign for the future of our industry if the 29% in non-bearing trees is applicable to our conditions. According to this same table, 16% of the McIntosh trees are in the 1 to 7 age group, 13% of the Northern Spy and 23% of the Red Delicious are in this same age group. We think that the "age ratio" is a fairly major consideration and one which growers should be concerned

about. Growers who are concerned about this particular age distribution for their area will find similar information from Tables III to III (F) which present the number of apple trees on standard rootstocks for the various districts by variety and age group.

Table IV presents the total number of apple trees on standard rootstocks in the province in comparison with those listed in the surveys of 1961 and 1956. One can readily see that there has been a decrease in the total number of trees on standard rootstocks in the last 10 years. Earlier, reference was made to the fact that the Ontario apple industry was continuing to grow. This is not a contradiction and can be explained by the fact that there has been a considerable shift in emphasis from standard rootstocks to size-controlling rootstocks in the last 10 years. For figures on the increase in trees on size-controlling rootstocks, see Table VII.

Production on Size-Controlling Rootstocks

During the past ten years, there has been a considerable interest in controlling the size of the tree which is being planted in Ontario. Growers have been planting their orchards to a greater extent on size-controlling rootstocks. The degree of size control varies from very dwarfing type rootstocks to rootstocks which give a tree approximately three-quarters the size of an ordinary standard tree. One of the basic reasons for switching to a size-controlling rootstock program is that it is becoming increasingly difficult to get harvest labor. Even when adequate labor is available, it is certainly much more economical to have this labor picking fruit from low ladders or from the ground, as opposed to climbing considerable heights to pick the fruit.

A word of caution: not all of the size-controlling rootstocks have been hardy enough for Ontario winter conditions. Again, no recommendations of what size-controlling rootstock is best will be made here because growers should get this information, for their area and for their farm, from the local Fruit and Vegetable Extension Specialist. Tables VI to XVII deal with the orchards on size-controlling rootstocks. It is of interest to note that there are 743 growers in Ontario who produce apples on size-controlling rootstocks. It is also interesting to note that 54% of these growers average 150 trees or less per farm. Table VI presents information indicating that Niagara and southwestern Ontario together

account for almost 65% of the total farms producing apples on size-controlling rootstocks. Certainly, these are the two areas where the winter conditions are less severe and orchards on size-controlling rootstocks could well be good-paying enterprises.

Table VII lists the apples on size-controlling rootstocks classified by variety and district. It is of interest to note here that, again, McIntosh, Delicious, and Northern Spy account for 71% of the trees grown on this size-controlling rootstock. It is of further interest to note that even though Niagara had 34% of the total number of farms producing apples on size-controlling rootstocks, it only has about 11% of the total number of trees. There are 500 trees on size-controlling rootstocks in the St. Lawrence Valley area. This may be 500 trees too many when one sees the amount of winter injury which is a year-in-year-out problem for that area.

Table VIII lists the number of apple trees on size-controlling rootstocks by variety and age group. One should note that 58% of the trees are in the 1 to 5 age group, and 6- to 10-year olds account for another 34% of the trees. Only 7% of the trees are over 10 years old. Therefore, 92% of our trees are in the 1 to 10 age range. It is therefore difficult, at this point, to predict the future profitability of growing trees on size-controlling rootstocks. Ten years is not a long time to gain evidence for these various rootstocks when one considers the multiplicity of problems which could develop over the lifespan of an orchard. At the moment, we do not know what the expected lifespan of trees on size-controlling rootstocks would be in Ontario.

Tables VIII (A) to VIII (F) list the number of apple trees on size-controlling rootstocks for the various districts by variety and age group. Again, growers may be interested in checking out the table for their particular area to see what is the age and variety distribution.

Table IX gives a comparison of the 1956 and 1961 surveys with the survey made in 1966. This table presents, in capsule form, the interest shown in planting trees on size-controlling rootstocks in the last 10 years.

On the census survey, we asked growers to give us their anticipated plantings and removals of trees on size-controlling rootstocks for the period of the next two years. Table X presents this information. It is interesting to note that 128

growers indicated that they will be planting 678 acres in the next two years. It is also interesting to note that 25 growers indicated that they will be removing 48 acres of the present trees. There will be a continued interest in planting trees on size-controlling rootstocks.

In order that the Ontario apple industry has a better picture of the distribution of the various size-controlling rootstocks used by Ontario growers, a very complete section, from Tables XI to XVII is included on this subject. Tables XI to XI (J) give the provincial breakdown of trees grown on each of the size-controlling rootstocks and the trees are classified by variety and age group. A brief summary of the distribution of rootstocks is as follows:

ROOTSTOCK	TOTAL NUMBER OF TREES	%
EM II	68,361	16.02
EM IV	1,044	.24
EM VII	142,618	33.43
EM IX	101,304	23.75
MM 104	4,215	.98
MM 106	29,401	6.90
MM 109	900	.21
MM 111	15,100	3.54
Others	63,693	14.93
TOTAL	426,636	100.00%

Tables XII to XII (C) give the breakdown of trees on the various size-controlling rootstocks for the St. Lawrence district. It is of interest to note, that EM VII has been the most popular stock in that area and that 97% of these are under 5 years of age.

Tables XIII to XIII (J) give the breakdown of trees on the various size-controlling rootstocks by variety and age group for the eastern Ontario district. The tree distribution by rootstocks indicates that the growers of this area have accepted a wide range of size-controlling rootstocks.

Tables XIV to XIV (H) give the breakdown of the trees on the various size-controlling rootstocks for the Georgian Bay district.

Tables XV to XV (F) give the breakdown of trees on the various size-controlling rootstocks for the central Ontario district.

Tables XVI to XVI (G) give the breakdown of the trees on the various size-controlling rootstocks for the Niagara area.

Tables XVII to XVII (H) give the breakdown of trees on the various size-controlling rootstocks for southwestern Ontario.

It should be noted that where one or more of the rootstocks is not listed for the various district, this means that the rootstock is not being grown in that area.

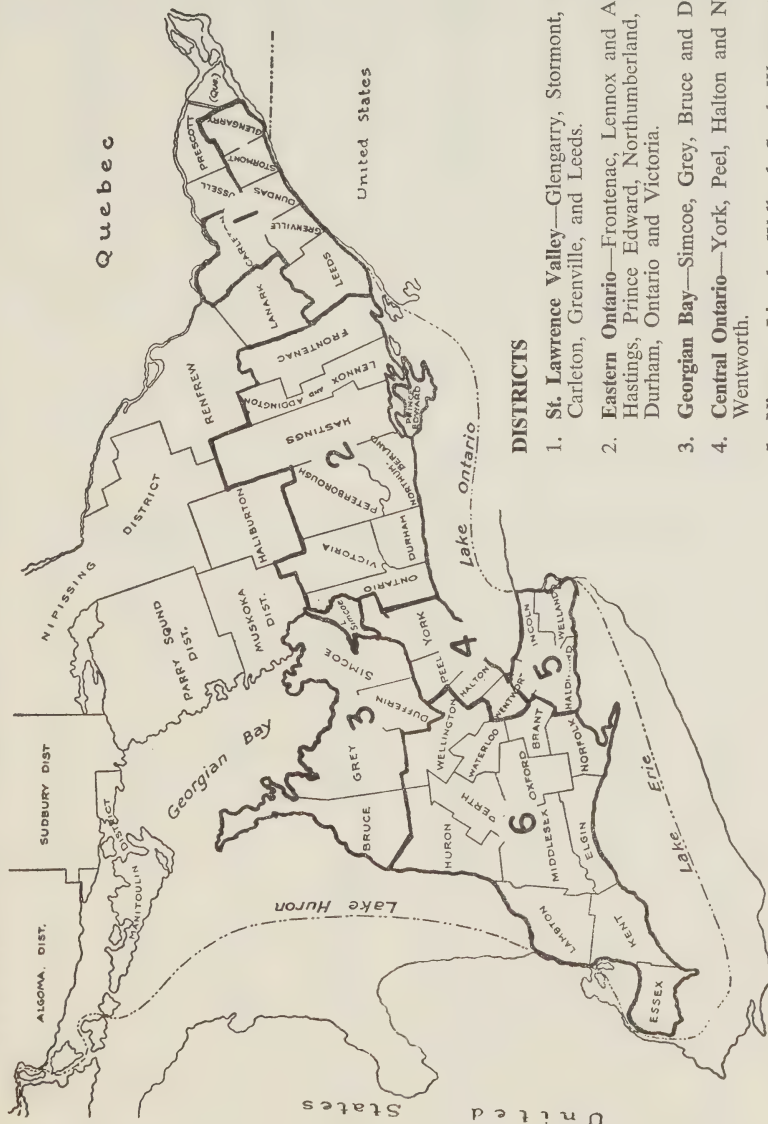
MALUS ROBUSTA 5 ROOTSTOCK

In many parts of the Province, there is considerable interest in producing trees on hardy rootstock. The breeding program at the Ottawa Research Station has been concerned with developing hardy rootstock material for eastern Canada. *Malus robusta 5* is a hardy, vigorous

stock developed from this program. We thought it would be of interest to indicate the degree of acceptability this rootstock has received in Ontario since its introduction. Table XVIII lists the farms reporting apple trees on robusta 5 rootstock. The data are classified according to number of trees on the various farms in the six districts. Of the 112 farms reporting trees on this rootstock, only 7 are found in the St. Lawrence Valley area. This is somewhat surprising since this should be an ideal rootstock for that area where one of the major problems is winter injury. From the distribution of the number of trees per farm, it is obvious that some growers have planted many trees on this rootstock.

Table XIX gives an indication of the anticipated plantings and removals of trees on this rootstock for the next two-year period. It looks as though there will be a net increase of 200 acres in the near future.

Map of Southern Ontario



DISTRICTS

1. **St. Lawrence Valley**—Glengarry, Stormont, Dundas, Carleton, Grenville, and Leeds.
2. **Eastern Ontario**—Frontenac, Lennox and Addington, Hastings, Prince Edward, Northumberland, Peterborough, Durham, Ontario and Victoria.
3. **Georgian Bay**—Simcoe, Grey, Bruce and Dufferin.
4. **Central Ontario**—York, Peel, Halton and North Wentworth.
5. **Niagara**—Lincoln, Welland, South Wentworth, and Haldimand.
6. **Southwestern Ontario**—Brant, Norfolk, Oxford, Perth, Wellington, Waterloo, Elgin, Middlesex, Kent, Lambton, Essex, and Huron.

APPLES ON STANDARD ROOTSTOCKS — TABLES I TO V

**TABLE I — Farms Reporting Apples on Standard Rootstocks
Classified According to Number of Trees on Farm**

Number of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	Southwestern Ontario	Total Province	No. of farms in size range as a % of total
	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	%
1 — 30	24	9	13	41	640	119	846	35.36
31 — 150	27	69	67	45	222	167	597	24.96
151 — 300	12	86	47	22	41	75	283	11.83
301 — 600	8	100	67	20	20	84	299	12.50
601 — 1,500	13	92	50	21	17	65	258	10.79
1,501 — 3,000	8	27	18	11	3	21	88	3.68
3,001 — 4,500	—	5	3	1	1	4	14	0.58
4,501 & over	—	2	4	1	—	—	7	0.30
TOTAL FARMS	<u>92</u>	<u>390</u>	<u>269</u>	<u>162</u>	<u>944</u>	<u>535</u>	<u>2,392</u>	<u>100.00</u>

Number of farms in each

district as a % of total 3.84 16.31 11.24 6.77 39.47 22.37 100.00

**TABLE II — Showing the Number of Apple Trees in the Province of Ontario
Classified by Variety and by District**

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	Southwestern Ontario	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	241	101	328	55	173	766	1,664	0.22
Lodi	269	231	2	470	258	993	2,223	0.29
Melba	1,636	3,327	2,257	2,361	2,553	3,603	15,737	2.11
Early McIntosh	2,184	1,484	2,019	1,225	798	1,834	9,544	1.27
McIntosh	23,761	107,460	65,644	29,416	16,154	52,418	294,853	39.38
Wayne	—	100	3,283	—	—	1	3,384	0.46
Idared	—	—	—	48	25	231	304	0.04
Northern Spy	55	49,232	39,035	19,396	10,209	39,285	157,212	20.99
Red Spy	169	7,224	6,070	2,676	2,944	6,376	25,459	3.40
Delicious	396	19,516	15,416	11,736	11,564	26,857	85,485	11.42
R. I. Greening	20	5,845	2,213	2,426	2,970	10,707	24,181	3.23
Wealthy	786	2,536	1,923	3,886	2,802	3,561	15,494	2.07
Cortland	2,741	5,700	3,081	3,299	2,784	7,130	24,735	3.30
Snow	931	5,392	1,464	652	939	2,655	12,033	1.61
Golden Delicious	21	1,241	571	1,608	1,718	5,349	10,508	1.40
Golden Russett	178	1,891	130	366	321	838	3,724	0.50
Other Varieties	5,209	22,832	6,359	3,373	7,186	17,293	62,252	8.31
TOTAL	<u>38,597</u>	<u>234,112</u>	<u>149,795</u>	<u>82,993</u>	<u>63,398</u>	<u>179,897</u>	<u>748,792</u>	<u>100.00</u>

District as a %

of Total Trees 5.16 31.26 20.01 11.08 8.46 24.03 100.00

**TABLE III — Showing the Number of Apple Trees in the Province of Ontario
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	1,407	202	39	16	1,664	0.22
Lodi	873	1,051	273	26	2,223	0.29
Melba	1,962	4,528	7,221	2,026	15,737	2.11
Early McIntosh	1,290	2,448	3,476	2,330	9,544	1.27
McIntosh	45,896	52,604	130,884	65,469	294,853	39.38
Wayne	3,384	—	—	—	3,384	0.46
Idared	226	76	2	—	304	0.04
Northern Spy	19,795	23,181	65,999	48,237	157,212	20.99
Red Spy	570	3,067	17,018	4,804	25,459	3.40
Delicious	19,817	19,805	34,911	10,952	85,485	11.42
R. I. Greening	3,009	4,444	10,007	6,721	24,181	3.23
Wealthy	973	4,130	6,326	4,065	15,494	2.07
Cortland	2,463	5,875	14,154	2,243	24,735	3.30
Snow	118	441	5,103	6,371	12,033	1.61
Golden Delicious	6,165	2,128	1,624	591	10,508	1.40
Golden Russett	625	618	1,462	1,019	3,724	0.50
Other Varieties	4,813	8,705	28,640	20,094	62,252	8.31
TOTAL	113,386	133,303	327,139	174,964	748,792	100.00
Age Group as a % of Total Trees	15.14	17.80	43.69	23.37	100.00	

**TABLE III (A) — Showing the Number of Apple trees in the St. Lawrence District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	241	—	—	—	241	0.62
Lodi	162	80	27	—	269	0.70
Melba	181	584	456	415	1,636	4.24
Early McIntosh	189	9	35	1,951	2,184	5.65
McIntosh	2,690	3,909	7,833	9,329	23,761	61.57
Wayne	—	—	—	—	—	—
Idared	—	—	—	—	—	—
Northern Spy	8	15	23	9	55	0.14
Red Spy	2	65	102	—	169	0.44
Delicious	141	173	53	29	396	1.02
R. I. Greening	1	2	9	8	20	0.05
Wealthy	14	127	293	352	786	2.04
Cortland	511	815	1,148	267	2,741	7.10
Snow	13	25	243	650	931	2.41
Golden Delicious	7	8	1	5	21	0.06
Golden Russett	98	15	36	29	178	0.46
Other Varieties	407	1,126	2,633	1,043	5,209	13.50
TOTAL	4,665	6,953	12,892	14,087	38,597	100.00
Age Group as a % of Total Trees	12.08	18.02	33.40	36.50	100.00	

**TABLE III (B) — Showing the Number of Apple Trees in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	77	23	1	—	101	0.04
Lodi	94	120	15	2	231	0.10
Melba	550	773	1,591	413	3,327	1.42
Early McIntosh	34	262	1,137	51	1,484	0.63
McIntosh	11,272	11,320	54,066	30,802	107,460	45.90
Wayne	100	—	—	—	100	0.04
Idared	—	—	—	—	—	—
Northern Spy	2,803	5,879	20,483	20,067	49,232	21.03
Red Spy	35	677	4,324	2,188	7,224	3.09
Delicious	2,522	4,127	9,286	3,581	19,516	8.33
R. I. Greening	1,484	201	2,110	2,050	5,845	2.50
Wealthy	56	332	825	1,323	2,536	1.08
Cortland	163	659	4,271	607	5,700	2.44
Snow	14	69	2,069	3,240	5,392	2.30
Golden Delicious	634	270	236	101	1,241	0.53
Golden Russett	103	178	910	700	1,891	0.81
Other Varieties	910	1,764	10,051	10,107	22,832	9.76
TOTAL	20,851	26,654	111,375	75,232	234,112	100.00
Age Group as a % of Total Trees	8.90	11.39	47.57	32.14	100.00	

**TABLE III (C) — Showing the Number of Apple Trees in the Georgian Bay District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	185	127	—	16	328	0.21
Lodi	—	2	—	—	2	0.01
Melba	283	469	1,383	122	2,257	1.50
Early McIntosh	450	511	1,058	—	2,019	1.35
McIntosh	18,807	12,494	25,486	8,857	65,644	43.82
Wayne	3,283	—	—	—	3,283	2.19
Idared	—	—	—	—	—	—
Northern Spy	6,628	6,203	16,281	9,923	39,035	26.06
Red Spy	267	655	4,298	850	6,070	4.05
Delicious	4,332	4,746	5,886	452	15,416	10.29
R. I. Greening	670	471	454	618	2,213	1.48
Wealthy	49	697	965	212	1,923	1.29
Cortland	256	891	1,872	62	3,081	2.05
Snow	15	54	578	817	1,464	0.98
Golden Delicious	382	69	115	5	571	0.38
Golden Russett	25	14	25	66	130	0.09
Other Varieties	1,047	981	3,246	1,085	6,359	4.25
TOTAL	36,679	28,384	61,647	23,085	149,795	100.00
Age Group as a % of Total Trees	24.48	18.95	41.15	15.42	100.00	

**TABLE III (D) — Showing the Number of Apple Trees in the Central Ontario District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	51	—	4	—	55	0.06
Lodi	112	335	20	3	470	0.57
Melba	156	1,135	909	161	2,361	2.84
Early McIntosh	193	744	265	23	1,225	1.48
McIntosh	5,781	9,266	12,487	1,882	29,416	35.44
Wayne	—	—	—	—	—	—
Idared	—	46	2	—	48	0.06
Northern Spy	6,001	3,911	7,217	2,267	19,396	23.37
Red Spy	27	275	2,136	238	2,676	3.23
Delicious	3,904	3,166	3,917	749	11,736	14.14
R. I. Greening	440	506	1,271	209	2,426	2.92
Wealthy	604	1,463	1,545	274	3,886	4.68
Cortland	566	869	1,674	190	3,299	3.98
Snow	3	85	269	295	652	0.78
Golden Delicious	1,211	167	204	26	1,608	1.94
Golden Russett	64	162	135	5	366	0.44
Other Varieties	126	952	1,644	651	3,373	4.07
TOTAL	19,239	23,082	33,699	6,973	82,993	100.00
Age Group as a % of Total Trees	23.18	27.81	40.60	8.41	100.00	

**TABLE III (E) — Showing the Number of Apple Trees in the Niagara District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	105	45	23	—	173	0.27
Lodi	42	190	26	—	258	0.40
Melba	187	793	1,290	283	2,553	4.03
Early McIntosh	155	236	253	154	798	1.26
McIntosh	1,008	4,108	7,404	3,634	16,154	25.48
Wayne	—	—	—	—	—	—
Idared	25	—	—	—	25	0.04
Northern Spy	820	1,231	5,562	2,596	10,209	16.10
Red Spy	157	310	2,051	426	2,944	4.65
Delicious	1,833	2,511	5,483	1,737	11,564	18.24
R. I. Greening	123	628	1,348	871	2,970	4.68
Wealthy	128	671	1,617	386	2,802	4.42
Cortland	260	1,098	1,117	309	2,784	4.39
Snow	25	104	581	229	939	1.48
Golden Delicious	737	432	494	55	1,718	2.71
Golden Russett	55	109	132	25	321	0.51
Other Varieties	1,124	1,217	3,445	1,400	7,186	11.34
TOTAL	6,784	13,683	30,826	12,105	63,398	100.00
Age Group as a % of Total Trees	10.70	21.58	48.62	19.10	100.00	

**TABLE III (F) — Showing the Number of Apple Trees in the Southwestern Ontario District
Classified by Variety and by Age Group**

Variety	1 to 7 yrs	8 to 15 yrs	16 to 30 yrs	31 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	%
Quinte	748	7	11	—	766	0.42
Lodi	463	324	185	21	993	0.55
Melba	605	774	1,592	632	3,603	2.01
Early McIntosh	269	686	728	151	1,834	1.02
McIntosh	6,338	11,507	23,608	10,965	52,418	29.13
Wayne	1	—	—	—	1	0.00
Idared	201	30	—	—	231	0.13
Northern Spy	3,535	5,942	16,433	13,375	39,285	21.84
Red Spy	82	1,085	4,107	1,102	6,376	3.54
Delicious	7,085	5,082	10,286	4,404	26,857	14.93
R. I. Greening	291	2,636	4,815	2,965	10,707	5.96
Wealthy	122	840	1,081	1,518	3,561	1.97
Cortland	707	1,543	4,072	808	7,130	3.97
Snow	48	104	1,363	1,140	2,655	1.47
Golden Delicious	3,194	1,182	574	399	5,349	2.98
Golden Russett	280	140	224	194	838	0.46
Other Varieties	1,199	2,665	7,621	5,808	17,293	9.62
TOTAL	25,168	34,547	76,700	43,482	179,897	100.00
Age Group as a % of Total Trees	13.99	19.20	42.63	24.18	100.00	

**TABLE IV — Showing the Number of Apple Trees in the Province of Ontario
Reported in the 1967 Survey
Compared with the Numbers Reported in the 1956 and the 1961 Surveys**

Variety	1956 Survey	1961 Survey	1966 Survey	1966 as a % of 1961
	No. trees	No. trees	No. trees	%
Quinte	*	**	1,664	—
Lodi	*	1,923	2,223	115.6
Melba	18,101	18,780	15,737	83.8
Early McIntosh	9,147	12,919	9,544	73.9
McIntosh	290,855	291,552	294,853	101.1
Wayne	*	**	3,384	—
Idared	*	**	304	—
Northern Spy	173,631	174,688	157,212	90.0
Red Spy	26,809	28,978	25,459	87.9
Delicious	82,915	87,100	85,485	98.1
R. I. Greening	33,907	24,933	24,181	97.0
Wealthy	26,939	22,908	15,494	67.6
Cortland	26,746	27,447	24,735	90.1
Snow	21,242	17,217	12,033	69.9
Golden Delicious	*	7,295	10,508	144.0
Golden Russett	*	4,420	3,724	84.3
Other Varieties	136,019	111,154	62,252	56.0
TOTAL	846,311	831,314	748,792	90.1

* included in any other variety in the 1956 Survey

** included in any other variety in the 1961 Survey

**TABLE V — Showing the Anticipated Plantings and Removal of Apple Trees
during 1967 and 1968**

District	Anticipated New Plantings		Anticipated Removals	
	No. farms	No. acres	No. farms	No. acres
Southwestern Ontario	25	89	33	104
Niagara	16	55	17	40
Central Ontario	4	21	8	18
Georgian Bay	20	117	6	17
Eastern Ontario	28	177	13	65
St. Lawrence Valley	7	18	—	—
TOTAL PROVINCE	100	477	77	244

APPLES ON SIZE-CONTROLLING ROOTSTOCKS — TABLES VI TO XVII (H)

**TABLE VI — Farms Reporting Apples on Size-Controlling Rootstocks
Classified According to Number of Trees on Farm**

Number of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	Southwestern Ontario	Total Province	No. of farms in each size as a % of total
	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	%
1 — 30	11	13	6	14	141	53	238	32.03
31 — 150	2	28	20	13	54	48	165	22.21
151 — 300	1	17	10	4	26	24	82	11.03
301 — 600	—	12	15	5	14	41	87	11.71
601 — 1,500	—	21	21	9	11	31	93	12.52
1,501 — 3,000	—	9	6	7	6	18	46	6.19
3,001 — 4,500	—	1	3	4	2	9	19	2.56
4,501 & over	—	3	1	5	—	4	13	1.75
TOTAL FARMS	14	104	82	61	254	228	743	100.00

Number of farms in each

district as a % of total 1.88 14.00 11.04 8.21 34.18 30.69 100.00

**TABLE VII — Showing the Number of Apple Trees in the Province of Ontario
Classified by Variety and by District**

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	Southwestern Ontario	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	No. trees	No. trees	No. trees	%
McIntosh	379	40,589	24,244	30,648	10,809	38,977	145,646	34.13
Delicious	50	20,232	15,539	20,995	11,913	34,437	103,166	24.18
Northern Spy	1	13,801	13,250	5,086	7,688	17,595	57,421	13.46
Early McIntosh	41	1,224	1,313	3,696	446	3,587	10,307	2.42
Wealthy	—	288	541	1,738	143	692	3,402	0.80
Melba	11	2,113	1,114	3,464	1,292	2,831	10,825	2.53
Cortland	4	437	1,583	1,789	1,602	1,155	6,570	1.54
Golden Delicious	—	1,303	4,716	6,952	5,066	15,854	33,891	7.95
Other Varieties	14	6,017	5,213	7,252	7,626	29,286	55,408	12.99
TOTAL	500	86,004	67,513	81,620	46,585	144,414	426,636	100.00

District as a %

of Total Trees 0.12 20.16 15.83 19.13 10.91 33.85 100.00

**TABLE VIII — Showing the Number of Apple Trees in the Province of Ontario
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	78,934	56,588	10,124	145,646	34.13
Delicious	56,185	39,284	7,697	103,166	24.18
Northern Spy	32,961	19,082	5,378	57,421	13.46
Early McIntosh	4,719	5,566	22	10,307	2.42
Wealthy	1,867	924	611	3,402	0.80
Melba	5,689	4,822	314	10,825	2.53
Cortland	3,213	2,466	891	6,570	1.54
Golden Delicious	26,694	4,775	2,422	33,891	7.95
Other Varieties	37,362	13,522	4,524	55,408	12.99
TOTAL	247,624	147,029	31,983	426,636	100.00
Age Group as a % of Total Trees	58.04	34.46	7.50	100.00	

**TABLE VIII (A) — Showing the Number of Apple Trees in the St. Lawrence District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	347	22	10	379	75.80
Delicious	9	41	—	50	10.00
Northern Spy	—	1	—	1	0.20
Early McIntosh	40	1	—	41	8.20
Wealthy	—	—	—	—	—
Melba	11	—	—	11	2.20
Cortland	4	—	—	4	0.80
Golden Delicious	—	—	—	—	—
Other Varieties	7	1	6	14	2.80
TOTAL	418	66	16	500	100.00
Age Group as a % of Total Trees	83.60	13.20	3.20	100.00	

**TABLE VIII (B) — Showing the Number of Apple Trees in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	17,748	21,444	1,397	40,589	47.19
Delicious	8,313	10,411	1,508	20,232	23.52
Northern Spy	3,935	7,945	1,921	13,801	16.05
Early McIntosh	197	1,027	—	1,224	1.42
Wealthy	—	228	60	288	0.34
Melba	652	1,386	75	2,113	2.46
Cortland	—	297	140	437	0.50
Golden Delicious	656	472	175	1,303	1.52
Other Varieties	3,711	1,749	557	6,017	7.00
TOTAL	35,212	44,959	5,833	86,004	100.00
Age Group as a % of Total Trees	40.94	52.27	6.79	100.00	

**TABLE VIII (C) — Showing the Number of Apple Trees in the Georgian Bay District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	18,924	3,176	2,144	24,244	35.91
Delicious	11,195	2,849	1,495	15,539	23.01
Northern Spy	10,856	1,135	1,259	13,250	19.63
Early McIntosh	1,216	80	17	1,313	1.94
Wealthy	426	100	15	541	0.80
Melba	913	86	115	1,114	1.65
Cortland	957	432	194	1,583	2.35
Golden Delicious	4,453	250	13	4,716	6.98
Other Varieties	4,370	788	55	5,213	7.73
TOTAL	53,310	8,896	5,307	67,513	100.00
Age Group as a % of Total Trees	78.96	13.17	7.87	100.00	

**TABLE VIII (D) — Showing the Number of Apple Trees in the Central Ontario District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	13,797	14,336	2,515	30,648	37.54
Delicious	10,842	9,360	793	20,995	25.73
Northern Spy	2,082	2,325	679	5,086	6.23
Early McIntosh	1,581	2,115	—	3,696	4.53
Wealthy	1,164	504	70	1,738	2.13
Melba	1,227	2,227	10	3,464	4.24
Cortland	1,175	514	100	1,789	2.19
Golden Delicious	6,298	634	20	6,952	8.52
Other Varieties	5,657	1,595	—	7,252	8.89
TOTAL	43,823	33,610	4,187	81,620	100.00
Age Group as a % of Total Trees	53.69	41.18	5.13	100.00	

**TABLE VIII (E) — Showing the Number of Apple Trees in the Niagara District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	6,886	3,125	798	10,809	23.20
Delicious	8,605	3,020	288	11,913	25.57
Northern Spy	4,655	2,582	451	7,688	16.50
Early McIntosh	428	13	5	446	0.96
Wealthy	83	54	6	143	0.31
Melba	1,043	210	39	1,292	2.77
Cortland	771	779	52	1,602	3.44
Golden Delicious	4,959	94	13	5,066	10.87
Other Varieties	6,039	1,519	68	7,626	16.38
TOTAL	33,469	11,396	1,720	46,585	100.00
Age Group as a % of Total Trees	71.84	24.46	3.70	100.00	

**TABLE VIII (F) — Showing the Number of Apple Trees in the Southwestern Ontario District
Classified by Variety and by Age Group**

Variety	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total	Variety as a % of Total Trees
	No. trees	No. trees	No. trees	No. trees	%
McIntosh	21,232	14,485	3,260	38,977	26.98
Delicious	17,221	13,603	3,613	34,437	23.85
Northern Spy	11,433	5,094	1,068	17,595	12.18
Early McIntosh	1,257	2,330	—	3,587	2.49
Wealthy	194	38	460	692	0.48
Melba	1,843	913	75	2,831	1.96
Cortland	306	444	405	1,155	0.80
Golden Delicious	10,328	3,325	2,201	15,854	10.98
Other Varieties	17,578	7,870	3,838	29,286	20.28
TOTAL	81,392	48,102	14,920	144,414	100.00
Variety as a % of Total Trees	56.36	33.30	10.34	100.00	

**TABLE IX — Showing the Number of Apple Trees in the Province of Ontario — Reported in 1966
Survey
Compared with Numbers in 1956 and 1961 Surveys**

Variety	1956 Survey	1961 Survey	1966 Survey	1966 as a % of 1961
	No. trees	No. trees	No. trees	%
McIntosh	23,873	87,296	145,646	166.8
Delicious	20,851	74,102	103,166	139.2
Northern Spy	10,044	36,623	57,421	156.8
Early McIntosh	2,675	13,039	10,307	79.0
Wealthy	2,373	3,182	3,402	106.9
Melba	1,678	8,267	10,825	130.9
Cortland	1,868	5,062	6,570	129.8
Golden Delicious	1,380	11,832	33,891	286.4
Other Varieties	7,606	33,216	55,408	166.8
TOTAL	72,348	272,619	426,636	156.5

**TABLE X — Showing the Anticipated Plantings and Removal of Apple Trees
During 1967 and 1968**

District	Anticipated New Plantings		Anticipated Removals	
	No. farms	No. acres	No. farms	No. acres
Southwestern Ontario	48	250	3	3
Niagara	22	68	15	6
Central Ontario	18	120	3	15
Georgian Bay	21	83	1	22
Eastern Ontario	18	132	—	—
St. Lawrence Valley	1	25	1	2
TOTAL PROVINCE	128	678	23	48

TABLE XI — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	EM 2			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	12,160	8,240	2,687	23,087
Delicious	8,100	7,215	2,650	17,965
Northern Spy	4,683	2,507	772	7,962
Early McIntosh	437	328	17	782
Wealthy	90	35	20	145
Melba	258	558	120	936
Cortland	476	621	400	1,497
Golden Delicious	3,253	1,181	595	5,029
Other Varieties	7,086	2,216	1,656	10,958
TOTAL	36,543	22,901	8,917	68,361
Age Group as a % of Total Trees	53.46	33.50	13.04	100.00

TABLE XI (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	EM 4			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	50	408	—	458
Delicious	500	60	—	560
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	24	—	24
Cortland	—	2	—	2
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	550	494	—	1,044
Age Group as a % of Total Trees	52.68	47.32	—	100.00

TABLE XI (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	EM 7			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	31,271	22,899	3,562	57,732
Delicious	13,260	15,831	1,363	30,454
Northern Spy	9,687	9,653	2,558	21,898
Early McIntosh	2,086	2,460	—	4,546
Wealthy	203	488	560	1,251
Melba	2,020	1,518	40	3,578
Cortland	490	848	223	1,561
Golden Delicious	7,900	2,243	160	10,303
Other Varieties	7,658	3,222	415	11,295
TOTAL	74,575	59,162	8,881	142,618
Age Group as a % of Total Trees	52.29	41.48	6.23	100.00

TABLE XI (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	EM 9			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	13,756	14,067	3,047	30,870
Delicious	13,798	12,154	1,924	27,876
Northern Spy	7,803	4,067	1,342	13,212
Early McIntosh	905	2,100	—	3,005
Wealthy	1,257	360	20	1,637
Melba	2,572	2,420	33	5,025
Cortland	1,102	487	154	1,743
Golden Delicious	6,617	539	13	7,169
Other Varieties	7,166	3,507	94	10,767
TOTAL	54,976	39,701	6,627	101,304
Age Group as a % of Total Trees	54.27	39.19	6.54	100.00

TABLE XI (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	MM 104			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	361	56	—	417
Delicious	2,281	—	—	2,281
Northern Spy	26	102	—	128
Early McIntosh	200	—	—	200
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	321	—	—	321
Other Varieties	868	—	—	868
TOTAL	4,057	158	—	4,215
Age Group as a % of Total Trees	96.25	3.75	—	100.00

TABLE XI (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	MM 106			Total
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	
	No. trees	No. trees	No. trees	No. trees
McIntosh	8,985	4,502	575	14,062
Delicious	5,465	2	525	5,992
Northern Spy	2,952	192	450	3,594
Early McIntosh	426	176	—	602
Wealthy	—	—	—	—
Melba	74	—	—	74
Cortland	322	—	—	322
Golden Delicious	922	—	—	922
Other Varieties	3,833	—	—	3,833
TOTAL	22,979	4,872	1,550	29,401
Age Group as a % of Total Trees	78.16	16.57	5.27	100.00

TABLE XI (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	MM 109			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	900	—	—	900
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	900	—	—	900
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XI (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	MM 111			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,871	106	—	3,977
Delicious	1,647	175	—	1,822
Northern Spy	5,928	—	—	5,928
Early McIntosh	72	—	—	72
Wealthy	36	—	—	36
Melba	2	5	—	7
Cortland	565	—	—	565
Golden Delicious	1,380	125	—	1,505
Other Varieties	1,016	172	—	1,188
TOTAL	14,517	583	—	15,100
Age Group as a % of Total Trees	96.14	3.86	—	100.00

TABLE XI (H) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Province of Ontario Classified by Variety and by Age Group

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	7,580	6,310	253	14,143
Delicious	11,134	3,847	1,235	16,216
Northern Spy	1,882	2,561	256	4,699
Early McIntosh	593	502	5	1,100
Wealthy	281	41	11	333
Melba	763	297	121	1,181
Cortland	258	508	114	880
Golden Delicious	6,301	687	1,654	8,642
Other Varieties	9,735	4,405	2,359	16,499
TOTAL	38,527	19,158	6,008	63,693
Age Group as a % of Total Trees	60.49	30.08	9.43	100.00

**TABLE XI (J) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Province of Ontario
Classified by Variety and by Age Group**

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	78,934	56,588	10,124	145,646
Delicious	56,185	39,284	7,697	103,166
Northern Spy	32,961	19,082	5,378	57,421
Early McIntosh	4,719	5,566	22	10,307
Wealthy	1,867	924	611	3,402
Melba	5,689	4,822	314	10,825
Cortland	3,213	2,466	891	6,570
Golden Delicious	26,694	4,775	2,422	33,891
Other Varieties	37,362	13,522	4,524	55,408
TOTAL	247,624	147,029	31,983	426,636
Age Group as a % of Total Trees	58.04	34.46	7.50	100.00

**TABLE XII — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the St. Lawrence District
Classified by Variety and by Age Group**

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	320	6	—	326
Delicious	6	—	—	6
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	3	3
TOTAL	326	6	3	335
Age Group as a % of Total Trees	97.31	1.79	0.90	100.00

**TABLE XII (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the St. Lawrence District
Classified by Variety and by Age Group**

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	10	16	—	26
Delicious	—	—	—	—
Northern Spy	—	1	—	1
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	6	—	—	6
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	16	17	—	33
Age Group as a % of Total Trees	48.48	51.52	—	100.00

**TABLE XII (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
In the St. Lawrence District
Classified by Variety and by Age Group**

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	17	—	10	27
Delicious	3	41	—	44
Northern Spy	—	—	—	—
Early McIntosh	40	1	—	41
Wealthy	—	—	—	—
Melba	5	—	—	5
Cortland	4	—	—	4
Golden Delicious	—	—	—	—
Other Varieties	7	1	3	11
TOTAL	<u>76</u>	<u>43</u>	<u>13</u>	<u>132</u>
Age Group as a % of Total Trees	57.58	32.58	9.84	100.00

**TABLE XII (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
In the St. Lawrence District
Classified by Variety and by Age Group**

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	347	22	10	379
Delicious	9	41	—	50
Northern Spy	—	1	—	1
Early McIntosh	40	1	—	41
Wealthy	—	—	—	—
Melba	11	—	—	11
Cortland	4	—	—	4
Golden Delicious	—	—	—	—
Other Varieties	7	1	6	14
TOTAL	<u>418</u>	<u>66</u>	<u>16</u>	<u>500</u>
Age Group as a % of Total Trees	83.60	13.20	3.20	100.00

**TABLE XIII — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	EM 2			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,215	424	178	1,817
Delicious	891	561	127	1,579
Northern Spy	438	110	—	548
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	20	—	50	70
Cortland	—	—	50	50
Golden Delicious	—	22	65	87
Other Varieties	2,563	30	320	2,913
TOTAL	<u>5,127</u>	<u>1,147</u>	<u>790</u>	<u>7,064</u>
Age Group as a % of Total Trees	72.58	16.24	11.18	100.00

TABLE XIII (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	EM 4			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	5	48	—	53
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	24	—	24
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	5	72	—	77
Age Group as a % of Total Trees	6.49	93.51	—	100.00

TABLE XIII (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	8,631	11,776	913	21,320
Delicious	2,594	7,256	675	10,525
Northern Spy	932	6,479	1,918	9,329
Early McIntosh	60	852	—	912
Wealthy	—	228	60	288
Melba	465	1,028	25	1,518
Cortland	—	290	89	379
Golden Delicious	506	370	110	986
Other Varieties	407	1,279	200	1,886
TOTAL	13,595	29,558	3,990	47,143
Age Group as a % of Total Trees	28.84	62.70	8.46	100.00

TABLE XIII (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	4,020	4,106	306	8,432
Delicious	2,673	1,934	706	5,313
Northern Spy	2,420	714	3	3,137
Early McIntosh	137	—	—	137
Wealthy	—	—	—	—
Melba	167	312	—	479
Cortland	—	—	1	1
Golden Delicious	90	78	—	168
Other Varieties	392	414	36	842
TOTAL	9,899	7,558	1,052	18,509
Age Group as a % of Total Trees	53.49	40.83	5.68	100.00

**TABLE XIII (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	MM 104			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	—	—	—
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	256	—	—	256
TOTAL	<u>256</u>	—	—	<u>256</u>
Age Group as a % of Total Trees	100.00	—	—	100.00

**TABLE XIII (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	MM 106			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	2,190	4,400	—	6,590
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	175	—	175
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	90	—	—	90
TOTAL	<u>2,280</u>	<u>4,575</u>	—	<u>6,855</u>
Age Group as a % of Total Trees	33.27	66.73	—	100.00

**TABLE XIII (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Eastern Ontario District
Classified by Variety and by Age Group**

Variety	MM 109			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	900	—	—	900
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	<u>900</u>	—	—	<u>900</u>
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XIII (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	MM 111			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	—	—	—
Delicious	400	—	—	400
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	20	—	—	20
Other Varieties	—	—	—	—
TOTAL	420	—	—	420
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XIII (H) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	787	690	—	1,477
Delicious	1,755	660	—	2,415
Northern Spy	145	642	—	787
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	22	—	22
Cortland	—	7	—	7
Golden Delicious	40	2	—	42
Other Varieties	3	26	1	30
TOTAL	2,730	2,049	1	4,780
Age Group as a % of Total Trees	57.11	42.87	0.02	100.00

TABLE XIII (J) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Eastern Ontario District Classified by Variety and by Age Group

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	17,748	21,444	1,397	40,589
Delicious	8,313	10,411	1,508	20,232
Northern Spy	3,935	7,945	1,921	13,801
Early McIntosh	197	1,027	—	1,224
Wealthy	—	228	60	288
Melba	652	1,386	75	2,113
Cortland	—	297	140	437
Golden Delicious	656	472	175	1,303
Other Varieties	3,711	1,749	557	6,017
TOTAL	35,212	44,959	5,833	86,004
Age Group as a % of Total Trees	40.94	52.28	6.78	100.00

**TABLE XIV — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Georgian Bay District
Classified by Variety and by Age Group**

Variety	EM 2			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	6,272	1,177	—	7,449
Delicious	2,544	825	75	3,444
Northern Spy	844	562	2	1,408
Early McIntosh	328	—	17	345
Wealthy	90	—	—	90
Melba	50	52	—	102
Cortland	205	222	10	437
Golden Delicious	780	50	—	830
Other Varieties	524	106	—	630
TOTAL	11,637	2,994	104	14,735
Age Group as a % of Total Trees	78.98	20.32	0.70	100.00

**TABLE XIV (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Georgian Bay District
Classified by Variety and by Age Group**

Variety	EM 4			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	300	—	300
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	—	300	—	300
Age Group as a % of Total Trees	—	100.00	—	100.00

**TABLE XIV (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Georgian Bay District
Classified by Variety and by Age Group**

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,449	1,609	—	5,058
Delicious	1,612	439	—	2,051
Northern Spy	1,974	470	—	2,444
Early McIntosh	600	30	—	630
Wealthy	—	100	—	100
Melba	658	3	10	671
Cortland	—	200	34	249
Golden Delicious	—	—	—	336
Other Varieties	—	—	—	178
TOTAL	8,822	2,851	44	11,717
Age Group as a % of Total Trees	75.29	24.33	0.38	100.00

TABLE XIV (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	2,040	90	1,569	3,699
Delicious	3,525	1,380	875	5,780
Northern Spy	750	3	807	1,560
Early McIntosh	—	50	—	50
Wealthy	300	—	15	315
Melba	205	30	30	265
Cortland	100	—	150	250
Golden Delicious	130	200	13	343
Other Varieties	876	510	55	1,441
TOTAL	7,926	2,263	3,514	13,703
Age Group as a % of Total Trees	57.85	16.51	25.64	100.00

TABLE XIV (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	MM 104			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	15	—	—	15
Delicious	—	—	—	—
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	15	—	—	15
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XIV (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	MM 106			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	2,745	—	575	3,320
Delicious	1,195	—	525	1,720
Northern Spy	1,310	—	450	1,760
Early McIntosh	216	—	—	216
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	72	—	—	72
Golden Delicious	350	—	—	350
Other Varieties	1,579	—	—	1,579
TOTAL	7,467	—	1,550	9,017
Age Group as a % of Total Trees	82.81	—	17.19	100.00

TABLE XIV (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	MM 111			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,833	—	—	3,833
Delicious	1,087	175	—	1,262
Northern Spy	5,751	—	—	5,751
Early McIntosh	72	—	—	72
Wealthy	36	—	—	36
Melba	—	—	—	—
Cortland	565	—	—	565
Golden Delicious	1,060	—	—	1,060
Other Varieties	931	172	—	1,103
TOTAL	13,335	347	—	13,682
Age Group as a % of Total Trees	97.46	2.54	—	100.00

TABLE XIV (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	570	—	—	570
Delicious	1,232	30	20	1,282
Northern Spy	227	100	—	327
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	1	75	76
Cortland	—	10	—	10
Golden Delicious	1,797	—	—	1,797
Other Varieties	282	—	—	282
TOTAL	4,108	141	95	4,344
Age Group as a % of Total Trees	94.57	3.24	2.19	100.00

TABLE XIV (H) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Georgian Bay District Classified by Variety and by Age Group

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	18,924	3,176	2,144	24,244
Delicious	11,195	2,849	1,495	15,539
Northern Spy	10,856	1,135	1,259	13,250
Early McIntosh	1,216	80	17	1,313
Wealthy	426	100	15	541
Melba	913	86	115	1,114
Cortland	957	432	194	1,583
Golden Delicious	4,453	250	13	4,716
Other Varieties	4,370	788	55	5,213
TOTAL	53,310	8,896	5,307	67,513
Age Group as a % of Total Trees	78.96	13.18	7.86	100.00

**TABLE XV — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Central Ontario District
Classified by Variety and by Age Group**

Variety	EM 2			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,228	2,487	1,184	4,899
Delicious	935	1,065	408	2,408
Northern Spy	202	230	85	517
Early McIntosh	—	—	—	—
Wealthy	—	—	20	20
Melba	—	400	—	400
Cortland	100	4	—	104
Golden Delicious	210	—	20	230
Other Varieties	645	4	—	649
TOTAL	3,320	4,190	1,717	9,227
Age Group as a % of Total Trees	35.98	45.41	18.61	100.00

**TABLE XV (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Central Ontario District
Classified by Variety and by Age Group**

Variety	EM 4			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	60	—	60
Delicious	—	60	—	60
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	—	120	—	120
Age Group as a % of Total Trees	—	100.00	—	100.00

**TABLE XV (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Central Ontario District
Classified by Variety and by Age Group**

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	4,825	2,369	427	7,621
Delicious	653	2,267	50	2,970
Northern Spy	257	637	80	974
Early McIntosh	710	300	—	1,010
Wealthy	30	155	50	235
Melba	53	180	—	233
Cortland	60	175	100	335
Golden Delicious	2,370	100	—	2,470
Other Varieties	315	493	—	808
TOTAL	9,273	6,676	707	16,656
Age Group as a % of Total Trees	55.68	40.08	4.24	100.00

TABLE XV (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Central Ontario District Classified by Variety and by Age Group

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	4,231	7,215	904	12,350
Delicious	3,653	5,947	335	9,935
Northern Spy	1,337	1,448	497	3,282
Early McIntosh	734	1,800	—	2,534
Wealthy	928	345	—	1,273
Melba	953	1,456	—	2,409
Cortland	716	191	—	907
Golden Delicious	2,490	224	—	2,714
Other Varieties	3,862	1,087	—	4,949
TOTAL	18,904	19,713	1,736	40,353
Age Group as a % of Total Trees	46.85	48.85	4.30	100.00

TABLE XV (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Central Ontario District Classified by Variety and by Age Group

Variety	MM 104			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	—	—	—
Delicious	1,600	—	—	1,600
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	200	—	—	200
Other Varieties	152	—	—	152
TOTAL	1,952	—	—	1,952
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XV (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Central Ontario District Classified by Variety and by Age Group

Variety	MM 106			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,600	—	—	1,600
Delicious	2,425	—	—	2,425
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	250	—	—	250
Golden Delicious	450	—	—	450
Other Varieties	2	—	—	2
TOTAL	4,727	—	—	4,727
Age Group as a % of Total Trees	100.00	—	—	100.00

TABLE XV (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Central Ontario District Classified by Variety and by Age Group

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,913	2,205	—	4,118
Delicious	1,576	21	—	1,597
Northern Spy	286	10	17	313
Early McIntosh	137	15	—	152
Wealthy	206	4	—	210
Melba	221	191	10	422
Cortland	49	144	—	193
Golden Delicious	578	310	—	888
Other Varieties	681	11	—	692
TOTAL	5,647	2,911	27	8,585
Age Group as a % of Total Trees	65.78	33.91	0.31	100.00

TABLE XV (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Central Ontario District Classified by Variety and by Age Group

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	13,797	14,336	2,515	30,648
Delicious	10,842	9,360	793	20,995
Northern Spy	2,082	2,325	679	5,086
Early McIntosh	1,581	2,115	—	3,696
Wealthy	1,164	504	70	1,738
Melba	1,227	2,227	10	3,464
Cortland	1,175	514	100	1,789
Golden Delicious	6,298	634	20	6,952
Other Varieties	5,657	1,595	—	7,252
TOTAL	43,823	33,610	4,187	81,620
Age Group as a % of Total Trees	53.69	41.18	5.13	100.00

TABLE XVI — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District Classified by Variety and by Age Group

Variety	EM 2			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	365	905	375	1,645
Delicious	822	713	240	1,775
Northern Spy	476	400	335	1,211
Early McIntosh	—	11	—	11
Wealthy	—	15	—	15
Melba	—	6	10	16
Cortland	85	240	50	375
Golden Delicious	139	50	—	189
Other Varieties	773	87	31	891
TOTAL	2,660	2,427	1,041	6,128
Age Group as a % of Total Rootstock	43.41	39.61	16.98	100.00

TABLE XVI (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,512	439	—	3,951
Delicious	2,277	354	—	2,631
Northern Spy	1,437	755	—	2,192
Early McIntosh	175	—	—	175
Wealthy	56	—	—	56
Melba	439	53	—	492
Cortland	228	164	—	392
Golden Delicious	3,025	1	—	3,026
Other Varieties	1,804	291	—	2,095
TOTAL	12,953	2,057	—	15,010
Age Group as a % of Total Rootstock	86.30	13.70	—	100.00

TABLE XVI (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,700	1,014	265	2,979
Delicious	2,805	1,322	2	4,129
Northern Spy	1,930	644	5	2,579
Early McIntosh	16	—	—	16
Wealthy	4	13	3	20
Melba	306	117	1	424
Cortland	286	231	—	517
Golden Delicious	1,129	33	—	1,162
Other Varieties	1,237	796	—	2,033
TOTAL	9,413	4,170	276	13,859
Age Group as a % of Total Rootstock	67.92	30.09	1.99	100.00

TABLE XVI (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group

Variety	MM 104			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	100	—	—	100
Delicious	150	—	—	150
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	50	—	—	50
Other Varieties	12	—	—	12
TOTAL	312	—	—	312
Age Group as a % of Total Rootstock	100.00	—	—	100.00

**TABLE XVI (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group**

Variety	MM 106			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	100	—	—	100
Delicious	639	2	—	641
Northern Spy	395	90	—	485
Early McIntosh	100	1	—	101
Wealthy	—	—	—	—
Melba	2	—	—	2
Cortland	—	—	—	—
Golden Delicious	114	—	—	114
Other Varieties	575	—	—	575
TOTAL	1,925	93	—	2,018
Age Group as a % of Total Rootstock	95.40	4.60	—	100.00

**TABLE XVI (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group**

Variety	MM 111			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	38	—	—	38
Delicious	40	—	—	40
Northern Spy	52	—	—	52
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	100	—	—	100
Other Varieties	85	—	—	85
TOTAL	315	—	—	315
Age Group as a % of Total Rootstock	100.00	—	—	100.00

**TABLE XVI (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group**

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,071	767	158	1,996
Delicious	1,872	629	46	2,547
Northern Spy	365	693	111	1,169
Early McIntosh	137	1	5	143
Wealthy	23	26	3	52
Melba	296	34	28	358
Cortland	172	144	2	318
Golden Delicious	402	10	13	425
Other Varieties	1,553	345	37	1,935
TOTAL	5,891	2,649	403	8,943
Age Group as a % of Total Rootstock	65.88	29.62	4.50	100.00

TABLE XVI (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Niagara District
Classified by Variety and by Age Group

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	6,886	3,125	798	10,809
Delicious	8,605	3,020	288	11,913
Northern Spy	4,655	2,582	451	7,688
Early McIntosh	428	13	5	446
Wealthy	83	54	6	143
Melba	1,043	210	39	1,292
Cortland	771	779	52	1,602
Golden Delicious	4,959	94	13	5,066
Other Varieties	6,039	1,519	68	7,626
TOTAL	33,469	11,396	1,720	46,585
Age Group as a % of Total Rootstock	71.85	24.46	3.69	100.00

TABLE XVII — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District
Classified by Variety and by Age Group

Variety	EM 2			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,080	3,247	950	7,277
Delicious	2,908	4,051	1,800	8,759
Northern Spy	2,723	1,205	350	4,278
Early McIntosh	109	317	—	426
Wealthy	—	20	—	20
Melba	188	100	60	348
Cortland	86	155	290	531
Golden Delicious	2,124	1,059	510	3,693
Other Varieties	2,581	1,989	1,305	5,875
TOTAL	13,799	12,143	5,265	31,207
Age Group as a % of Total Rootstock	44.22	38.91	16.87	100.00

TABLE XVII (A) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District
Classified by Variety and by Age Group

Variety	EM 4			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	45	—	—	45
Delicious	500	—	—	500
Northern Spy	—	—	—	—
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	2	—	2
Golden Delicious	—	—	—	—
Other Varieties	—	—	—	—
TOTAL	545	2	—	547
Age Group as a % of Total Rootstock	99.64	0.36	—	100.00

TABLE XVII (B) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	EM 7			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	10,534	6,700	2,222	19,456
Delicious	6,118	5,515	638	12,271
Northern Spy	5,087	1,312	560	6,959
Early McIntosh	541	1,278	—	1,819
Wealthy	117	5	450	572
Melba	405	254	5	664
Cortland	187	19	—	206
Golden Delicious	1,663	1,772	50	3,485
Other Varieties	4,954	1,159	212	6,325
TOTAL	29,606	18,014	4,137	51,757
Age Group as a % of Total Rootstock	57.21	34.80	7.99	100.00

TABLE XVII (C) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	EM 9			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	1,755	1,626	3	3,384
Delicious	1,142	1,571	6	2,719
Northern Spy	1,366	1,257	30	2,653
Early McIntosh	18	250	—	268
Wealthy	25	2	2	29
Melba	935	505	2	1,442
Cortland	—	65	3	68
Golden Delicious	2,778	4	—	2,782
Other Varieties	799	700	3	1,502
TOTAL	8,818	5,980	49	14,847
Age Group as a % of Total Rootstock	59.40	40.27	0.33	100.00

TABLE XVII (D) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	MM 104			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	246	56	—	302
Delicious	531	—	—	531
Northern Spy	26	102	—	128
Early McIntosh	200	—	—	200
Wealthy	—	—	—	—
Melba	—	—	—	—
Cortland	—	—	—	—
Golden Delicious	71	—	—	71
Other Varieties	448	—	—	448
TOTAL	1,522	158	—	1,680
Age Group as a % of Total Rootstock	90.60	9.40	—	100.00

TABLE XVII (E) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	MM 106			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	2,350	102	—	2,452
Delicious	1,206	—	—	1,206
Northern Spy	1,247	102	—	1,349
Early McIntosh	110	—	—	110
Wealthy	—	—	—	—
Melba	72	—	—	72
Cortland	—	—	—	—
Golden Delicious	8	—	—	8
Other Varieties	1,587	—	—	1,587
TOTAL	6,580	204	—	6,784
Age Group as a % of Total Rootstock	97.00	3.00	—	100.00

TABLE XVII (F) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	MM 111			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	—	106	—	106
Delicious	120	—	—	120
Northern Spy	125	—	—	125
Early McIntosh	—	—	—	—
Wealthy	—	—	—	—
Melba	2	5	—	7
Cortland	—	—	—	—
Golden Delicious	200	125	—	325
Other Varieties	—	—	—	—
TOTAL	447	236	—	683
Age Group as a % of Total Rootstock	65.45	34.55	—	100.00

TABLE XVII (G) — Showing the Number of Apple Trees on Size-Controlling Rootstocks in the Southwestern Ontario District Classified by Variety and by Age Group

Variety	OTHER ROOTSTOCK			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	3,222	2,648	85	5,955
Delicious	4,696	2,466	1,169	8,331
Northern Spy	859	1,116	128	2,103
Early McIntosh	279	485	—	764
Wealthy	52	11	8	71
Melba	241	49	8	298
Cortland	33	203	112	348
Golden Delicious	3,484	365	1,641	5,490
Other Varieties	7,209	4,022	2,318	13,549
TOTAL	20,075	11,365	5,469	36,909
Age Group as a % of Total Rootstock	54.39	30.79	14.82	100.00

**TABLE XVII (H) — Showing the Number of Apple Trees on Size-Controlling Rootstocks
in the Southwestern Ontario District
Classified by Variety and by Age Group**

Variety	TOTAL			
	1 to 5 yrs	6 to 10 yrs	11 yrs & over	Total
	No. trees	No. trees	No. trees	No. trees
McIntosh	21,232	14,485	3,260	38,977
Delicious	17,221	13,603	3,613	34,437
Northern Spy	11,433	5,094	1,068	17,595
Early McIntosh	1,257	2,330	—	3,587
Wealthy	194	38	460	692
Melba	1,843	913	75	2,831
Cortland	306	444	405	1,155
Golden Delicious	10,328	3,325	2,201	15,854
Other Varieties	17,578	7,870	3,838	29,286
TOTAL	81,392	48,102	14,920	144,414
Age Group as a % of Total Rootstock	56.36	33.31	10.33	100.00

MALUS ROBUSTA 5 ROOTSTOCK — TABLES XVIII AND XIX

**TABLE XVIII — Farms Reporting Apple Trees on Malus robusta 5 Rootstock
Classified According to Number of Trees on Farm**

	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	Southwestern Ontario	Total Province	Number of farms in each size range as a % of Total
	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	No. farms	%
1 — 30	3	4	4	1	2	3	17	15.04
31 — 150	1	17	7	1	3	4	33	29.20
151 — 300	2	14	11	0	1	1	29	25.66
301 — 600	0	6	11	0	0	0	17	15.04
601 — 1,500	1	5	6	1	0	1	14	12.38
1,501 — 3,000	0	1	1	0	0	0	2	1.76
3,001 and over	0	0	0	0	0	1	1	0.88
TOTAL FARMS	7	47	40	3	6	10	113	100.00

Number of Farms in

Each District as a

% of Total	6.20	41.59	35.40	2.65	5.31	8.85	100.00
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**TABLE XIX — Anticipated Plantings and Removals of Apple Trees on Malus robusta 5 Rootstock
During 1967 and 1968**

District	Anticipated New Plantings		Anticipated Removals	
	No. farms	No. acres	No. farms	No. acres
Southwestern Ontario	7	35	4	10
Niagara	13	36	11	9
Central Ontario	1	48	—	—
Georgian Bay	11	47	2	2
Eastern Ontario	34	64	10	10
St. Lawrence Valley	2	6	1	4
TOTAL PROVINCE	68	236	28	35



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